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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/110,717	07/07/1998	RANDELL L. MILLS	9113-19-C16	5034
FARKAS & M	7590 12/20/2007 ANELLI P.L.L.C	EXAMINER		
2000 M STREE	ET, N.W. 7TH FLOOR	KALAFUT, STEPHEN J		
WASHINGTO	N, DC 200363307	307	ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			12/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.		Applicant(s)		
Office Action Summary		09/110,717	9/110,717 MILLS, RANDELL L.		. L.	
		Examiner		Art Unit		
		Stephen J. Kalaf	ut	1795		
The MAILING DATE of the Period for Reply	his communication app	pears on the cove	sheet with the co	orrespondence ad	dress	
A SHORTENED STATUTORY WHICHEVER IS LONGER, FR - Extensions of time may be available under after SIX (6) MONTHS from the mailing of the second	COM THE MAILING D er the provisions of 37 CFR 1.1 late of this communication. the maximum statutory period of period for reply will, by statute in three months after the mailing	ATE OF THIS CO 36(a). In no event, howe will apply and will expire e, cause the application to	DMMUNICATION ever, may a reply be time SIX (6) MONTHS from the become ABANDONED	Ply filed the mailing date of this of (35 U.S.C. § 133).		
Status						
 1) Responsive to communication is FINAL. 3) Since this application is closed in accordance with 	2b)⊠ This in condition for allowa	action is non-finance except for for	mal matters, pros		e merits is	
Disposition of Claims	·					
4) ⊠ Claim(s) <u>1-28 and 38-16</u> 4a) Of the above claim(s) 5) □ Claim(s) is/are all 6) ⊠ Claim(s) <u>1-28 and 38-16</u> 7) □ Claim(s) is/are ob 8) □ Claim(s) are subjective.) is/are withdra owed. <u>7</u> is/are rejected. jected to.	wn from consider				
Application Papers						
9) The specification is object 10) The drawing(s) filed on Applicant may not request to Replacement drawing sheet 11) The oath or declaration is	is/are: a) acc that any objection to the t(s) including the correc	epted or b) obj drawing(s) be held tion is required if th	in abeyance. See e drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 Cf		
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-89 Notice of Draftsperson's Patent Drav Information Disclosure Statement(s) Paper No(s)/Mail Date <u>30 Oct 2007</u>. 	ving Review (PTO-948)	5) 🔲	Interview Summary (Paper No(s)/Mail Dat Notice of Informal Pa Other:	e		

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A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 October 2007 has been entered.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-28 and 38-167, for reasons of record previously applied to claims 1-28 and 38-166, are rejected under 35 U.S.C. 101 because the claimed invention lacks patentable utility. See paper no. 3, paragraph no. 2.

Claims 1-28 and 38-167, for reasons of record previously applied to claims 1-28 and 38-166, are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. See paper no. 3, paragraph no. 3.

Applicant's arguments filed 30 October 2007 have been fully considered but they are not persuasive.

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Regarding applicant's argument that the microwave-field Balmer line broadening in the Luque *et al.* paper being allegedly six orders of magnitude too low too account for that reported by applicant, see the Appendix to paper no. 20070716, pages 14-15.

Applicant argues that the arguments by the "Committee" concerning the difference in profile shapes in figures 4a, 4b and 4c of Cvetanovic *et al.* are without merit. Applicant states that he as computer-fit the data himself, which fits a Gaussian profile corresponding to Doppler broadening. This is not persuasive because the difference in profile shape is apparent to the naked eye, and needs no computer fitting. Also see the Appendix to paper no. 20070716, pages 9-12.

Applicant argues that in his critique of Applicant's theory, Dr. Rathke has misrepresented Applicant's equations (1) and (9) by changing mathematical signs. Regarding equation (1), in both Rathke and applicant's article, the sign between the first character, an upside-down Greek upper case delta (Δ), and the expression $1/v^2 \delta^2/\delta t^2$, in the classical wave equation, is minus. Rathke's equation (9) is derived using a "separation ansatz" in his equations (7) and (8). There does not appear to be any equation in the article by Applicant that Rathke cites, which is "The grand unified theory of classical quantum mechanics" (from *International Journal Of Hydrogen Energy*, 2002), that is the same as Rathke's equation (9), but with the sign reversed. Thus, Applicant's accusation the Dr. Rathke has committed fraud does not appear to be supported.

Applicant repeats his argument that Lieb disproves Krieg. Lieb does not reject the Heisenberg uncertainty principle entirely, but instead differs with an argument that is often based thereon. See page 555, left column, first two paragraphs. He states that "Eq. (4)" (which is on page 554), from the Heisenberg uncertainty principle, is correct, but "it is a pale reflection of the

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power of the operator $-\Delta$ to prevent collapse" (page 555, left column 4th paragraph). Lieb then offers the Sobolev inequality as a "better uncertainty principle". Nowhere, however, does Lieb ever allow for hydrogen atoms going below the conventionally known "ground state".

Applicant argues that he did not give the "Committee" reason to formulate new patentability standards. The conflict with accepted scientific standards is not a new standard of patentability, but a legitimate tool for evaluation of patentability under §101 and §112, as explained in MPEP 2107.

Attachments 115 and 116 would fall into category (4), as speculating hydrino formation as an explanation for experimental data unrelated to and not necessarily caused by hydrinos, as stated in paper no. 36.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 571-272-1286. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

sjk

STEPHEN KALAFUT PRIMARY EXAMINER